Applicants wish to amend claims 23 and 32 (as depicted below) to correct

typographical errors. Upon entry, this listing of claims will replace all prior versions, and

listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method for processing media data, the

method comprising:

transferring, by a stream-source object, multimedia data to a control layer,

which provides a single interface between the stream-source object and a plurality

of other objects, wherein the stream-source object operates subject to control of a

media-source object;

receiving at the control layer the multimedia data, which includes a

plurality of media data streams in different formats;

transferring a media data stream of the plurality of media data streams to a

transform object, which converts the media data stream into a format that is

usable by a data sink;

receiving in the control layer the media data stream, which has been

converted into the format; and

transferring the media data stream to a stream-sink object, which is usable

to transfer the media data stream to the data sink,

(1) wherein the stream-sink object operates subject to a media-sink object

that implements a state machine to control a state of transfer of the media data

stream on a per stream basis, the state machine being implemented according to a control signal from the control layer, and

- (2) wherein the control layer signals the stream-sink object that a discontinuity exists in another media data stream by placing an associated marker in the other media data stream
- (Previously Presented) The method of claim 1 wherein a modification of the media data stream in the stream-sink object is dynamic.
 - (Previously Presented) The method of claim 1 further comprising: throttling processing of the media data stream via the stream-sink object based on the media-sink object.
- (Previously Presented) The method of claim 1 wherein one or more
 of the media-sink object and the stream-sink object provide notifications of events to the control
 layer.
- (Previously Presented) The method of claim 1 wherein the media data stream switches to a second media-sink object upon a detection of invalid media sink.
- 6. (Previously Presented) The method of claim 1 wherein the mediasink object directs multiplexing of two or more of the media data streams into a same media-sink object.
- (Previously Presented) The method of claim 1 wherein the control layer directs control and timing of the media-sink object and the stream-sink object.

8. (Previously Presented) The method of claim 1 wherein the control layer directs format negotiation to be performed in the stream-sink object, the format appropriate for an output device.

- 9. (Previously Presented) The method of claim 1 wherein the control layer includes a media engine and a media processor, the media engine communicating with a core layer to direct a pipeline through the transform object and to the media-sink object.
- 10. (Previously Presented) The method of claim 9 wherein the core layer includes the media-sink object, the stream-sink object, the media-source object, the transform object, and the stream-source object.
- 11. (Previously Presented) The method of claim 1 wherein the streamsink object accesses an application programming interfaces (API) that enables the stream-sink object to access a pointer to the media-sink object.
- 12. (Previously Presented) The method of claim 1 wherein the streamsink object accesses an application programming interfaces (API) that provides an identifier for the media-sink object.
- 13. (Previously Presented) The method of claim 1 wherein the streamsink object accesses an application programming interfaces (API) that provides a type of media in use.
- 14. (Previously Presented) The method of claim 1 wherein the streamsink object accesses an application programming interfaces (API) configured to cause processing of a sample of the media data.

- 15. (Previously Presented) The method of claim 1 wherein the streamsink object accesses an application programming interfaces (API) configured to remove any data that has not been processed.
- 16. (Previously Presented) The method of claim 1 wherein the stream-sink object accesses an application programming interfaces (API) configured to place a marker in the data stream to determine when the stream-sink object has finished processing received data associated with the marker.
- 17. (Previously Presented) The method of claim 1 wherein the streamsink object accesses an application programming interfaces (API) configured to identify an end of a segment of the media data.
- (Previously Presented) The method of claim 9 wherein the core
 laver is configured to communicate to retrieve characteristics of a sample allocator.
- 19. (Previously Presented) The method of claim 9 wherein the core layer is configured to request that a sample allocator acquire any needed resources.
- 20. (Previously Presented) The method of claim 9 wherein the core layer is configured to request that a sample allocator end an asynchronous resource allocation process.
- 21. (Previously Presented) The method of claim 9 wherein the core layer is configured to request that a sample allocator retrieve one or more of a maximum number of samples in a sample allocation and any requested samples.

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22. (Previously Presented) The method of claim 9 wherein the core

layer is configured to request that a sample allocator cancel one or more allocations.

(Currently Amended) A computer storage medium having

computer-executable instructions stored thereon that, when executed, cause a computing device

to perform a method for processing data through a collection of one or more media objects, the

method comprising:

receiving from a stream-source object a plurality of media data streams at

once in different formats via a control layer, which provides a single interface

between the stream-source object and a plurality of other objects;

transferring a media data stream of the plurality of media data streams to

a transform object to be modified;

receiving at the control layer the media data stream that was modified;

and

transferring the media data stream to a stream-sink object, which is usable

to transfer the media data stream to a data sink, wherein the stream-sink object

operates subject to a media-sink object that implements a state machine to control

a state of transfer of the media data stream on a per stream basis, the state

machine being implemented according to a control signal from the control layer.

laver.

24. (Previously Presented) The computer readable medium of claim 23

wherein modification of the data streams in the stream sink is dynamic.

25. (Canceled)

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- 26. (Previously Presented) The computer readable medium of claim 23 wherein one or more of the media sink and the stream sink provides notifications of events to the control layer.
- 27. (Original) The computer readable medium of claim 23 wherein the media data stream switches to a second media sink upon a detection of invalid media sink.
- 28. (Original) The computer readable medium of claim 23 wherein the media sink directs multiplexing of two or more of the media data streams into a same media sink.
- 29. (Previously Presented) The computer readable medium of claim 23 wherein the control layer directs control and timing of the media sink and the stream sinks.
- 30. (Original) The computer readable medium of claim 23 wherein the control layer directs format negotiation to be performed in the stream sinks, the format appropriate for an output device.
- 31. (Original) The computer readable medium of claim 23 wherein the control layer includes a media engine and a media processor, the media engine communicating with a core layer to direct a pipeline through one or more multimedia transforms and to the media sink.
- 32. (Currently Amended) A computing system, which includes one or more computing devices having a processor, a server, and a computer storage medium, the computing system configured to provide a multimedia system, the multimedia system comprisine:

a control layer maintained on one or more computing devices, the control layer configured to provide a single interface to a stream source, a transform, a media sink, and a stream sink; and

a core layer maintained on the one or more computing devices, the core layer coupled to the control layer, the core layer including:

- the stream source, which transfers media data streams to the control layer;
- (2) the transform, which receives the media data streams from the control <u>layer</u> [[laver]] and converts a format of the media data streams;
- (3) the media sink configured to implement a state machine to control transfer of the media data streams on a per stream basis through the multimedia system, the state machine <u>being</u> [[bang]] implemented according to a control signal from the control layer; and
- (4) a stream sink configured to dynamically modify the media data streams via the control layer and an identified state of the media data streams determined in the media sink components.
- 33. (Previously Presented) The computing system of claim 32 wherein the control layer is an application programming interface (API).
- 34. (Previously Presented) The computing system of claim 32 wherein the control layer includes a media engine and a media processor, the media engine communicating with a core layer to direct a pipeline through one or more multimedia transforms and to the media sink.

35. (Previously Presented) The computing system of claim 32 wherein the core layer includes a media source.

- 36. (Previously Presented) The computing system of claim 32 wherein the core layer is configured to communicate with the media sink to retrieve the characteristics of the media sink.
- 37. (Previously Presented) The computing system of claim 32 wherein the core layer is configured to communicate with the media sink to add an additional stream sink and remove one of the stream sinks.
- 38. (Previously Presented) The computing system of claim 32 wherein the core layer is configured to communicate with the media sink, the media sink enabled to report the number of stream sinks associated with a given media sink.
- 39. (Previously Presented) The computing system of claim 32 wherein the core layer is configured to communicate with the stream sinks to send a pointer to a stream sink associated with the media sink by an index in the media sink.
- 40. (Previously Presented) The computing system of claim 32 wherein the core layer is configured to communicate to send a pointer, to a stream sink associated with the media sink using a stream sink identifier.
- 41. (Previously Presented) The computing system of claim 32 wherein the core layer is configured to communicate to set a rate of a presentation clock and retrieve a presentation clock setting.

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42. (Previously Presented) The computing system of claim 32 wherein the core layer is configured to communicate to retrieve characteristics of a sample allocator.

43. (Previously Presented) The computing system of claim 32 wherein the core layer is configured to request that a sample allocator acquire any needed resources.

- 44. (Previously Presented) The computing system of claim 32 wherein the core layer is configured to request that a sample allocator end an asynchronous resource allocation process.
- 45. (Previously Presented) The computing system of claim 32 wherein the core layer is configured to request that a sample allocator retrieve one or more of a maximum number of samples in a sample allocation and any requested samples.
- 46. (Previously Presented) The computing system of claim 32 wherein the core layer is configured to request that a sample allocator cancel one or more allocations.